SEQUENCE LISTING

<110> Sato, Taka-Aki

<120> GENE ENCODING NADE, P75NTR-ASSOCIATED CELL DEATH EXECUTOR AND USES THEREOF

<130> 0575/59131-A-PCT-US

<140> 10/018,169

<141> 2001-12-07

<160> 45

<170> PatentIn version 3.1

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Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln
1 5 10 15

Asn Gly Glu Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro
20 25 30

Ala Gly Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His
35 40 45

Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile
50 55 60

Pro Asn Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met
65 70 75 80

Glu Met Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu
85 90 95

Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn
100 105 110

His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120

<210> 13

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<212> PRT

<213> Human

<400> 13

Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
1 5 10 15

Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro
20 25 30

Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg
35 40 45

Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly
50 55 60

Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys
65 70 75 80

Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu
85 90 95

Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
100 105 110

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Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu Thr
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Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp Glu
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Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile
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Leu Pro Val Leu Glu Asn Leu Thr Leu
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<400> 18

Leu Pro Pro Leu Glu Arg Leu Thr Leu
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Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Arg
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Glu Val Asp Gln Leu Arg Leu Glu Arg Leu Gln Ile Asp
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<213> Mouse

<400> 21

Leu Pro Leu Gly Lys Leu Thr Leu
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<400> 22

Ala Leu Ser Ala Gln Leu Tyr Ser Ser Leu Ser Leu Asp Ser
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Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
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<213> Mouse

<400> 24

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
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<210> 25

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<212> PRT

<213> Mouse

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1 5 10 15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His
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<213> Human

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Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu
1 5 10 15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His
20 25

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aggactacgc cgcaagggat aggcccagaa tagcaaccag gaaacaaaat ctcatcatgg 180

ccaatgtcca ccaggaaaac gaagagctgg agcagcccct gcagaatgga caggaagacc 240

gccctgtggg aggaggtgag ggccaccagc ctgctgcaaa caacaacaac aacaaccaca 300

accataacca caaccaccac cgaagaggcc aggctcgccg acttgccccc aacttccgat 360

gggccattcc caacaggcag atgaatgacg ggttgggtgg agatggagat gatatggaaa 420

tgttcatgga ggagatgaga gagatccgga gaaagcttag ggagctacag ctgagaaatt 480

gtctacgcat ccttatgggg gagctgtcta accaccacga tcaccatgat gaattctgcc 540

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gggaggggct ttaattggag gccccgtaga ggacgcgcgg aacttctaag gtgggaaaaa 180

acgaaattaa aaaatccttt gatatcaggg ctctgaatcc tgctggtcag agcaccaagc 240

attcagtctc tctccttgcc tttgtcttac ttgtgttcaa agaaaaacaa ccagaaaaaa 300

aaaatctcat catggcaaat attcaccagg aaaacgaaga gatggagcag cctatgcaga 360

atggagagga agaccgccct ttgggaggag gtgaaggcca ccagcctgca ggaaatcgac 420

ggggacaggc tcgccgactt gcccctaatt ttcgatgggc catacccaat aggcagatca 480

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tctctaatca ccatgaccat catgatgaat tttgccttat gccttgactc ctgccattta 660

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ctttactgat ccgtttgctg tgaaccctat gttatttcca tgtgtcaagt gggtcttgtg 780

ttgccagctt ctatttgaag attgcctttg cactcagtgt aagtttctgt cagcagtagt 840

ttcacccatt tgcatggaaa aatttaaagc taataaagca atttaaaaag c 891

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<212> PRT

<213> Mouse

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Met Glu Ser Lys Asp Gln Gly Val Lys Asn Leu Asn Met Glu Asn Asp
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His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Arg
20 25 30

Arg Glu Pro Ala Val Ala Leu Ile Ser Glu Ala Gly Lys Asn Cys Ala
35 40 45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ala His
50 55 60

Tyr Arg Trp Asp Leu Met Gln Arg Val Gly Glu Pro Gln Gly Arg Met
65 70 75 80

Arg Glu Glu Asn Val Gln Arg Phe Gly Gly Asp Val Arg Gln Leu Met
85 90 95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
100 105 110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120 125

<210> 31

<211> 128

<212> PRT

<213> Mouse

<400> 31

Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu Asn
1 5 10 15

Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala Asn
20 25 30

Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu Tyr Cys Val
35 40 45

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Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln
    50                  55                  60

Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met
65                  70                  75                  80

Arg Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met
                85                  90                  95

Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser
            100                 105                 110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
        115                 120                 125
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<210> 32

<211> 125

<212> PRT

<213> Mouse

<400> 32

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Met Glu Ser Lys Glu Lys Arg Ala Val Asn Ser Leu Ser Met Glu Asn
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Ala Asn Gln Glu Asn Glu Glu Lys Glu Gln Val Ala Asn Lys Gly Glu
            20                  25                  30

Pro Leu Ala Leu Pro Leu Asp Ala Gly Glu Tyr Cys Val Pro Arg Gly
        35                  40                  45

Asn Arg Arg Arg Phe Pro Val Arg Gln Pro Ile Leu Gln Tyr Arg Trp
    50                  55                  60

Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met Arg Glu Glu
65                  70                  75                  80

Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met Glu Lys Leu
                85                  90                  95
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Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser Thr Asp Pro
100 105 110

Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120 125

<210> 33

<211> 128

<212> PRT

<213> Mouse

<400> 33

Met Glu Ser Lys Asp Gln Gly Ala Lys Asn Leu Asn Met Glu Asn Asp
1 5 10 15

His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Lys
20 25 30

Arg Glu Pro Val Val Ala Pro Thr Phe Glu Ala Gly Lys Asn Cys Ala
35 40 45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ser His
50 55 60

Tyr Arg Trp Asp Leu Met His Arg Val Gly Glu Pro Gln Gly Arg Met
65 70 75 80

Arg Glu Glu Asn Val Gln Arg Phe Gly Glu Asp Met Arg Gln Leu Met
85 90 95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
100 105 110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120 125

<210> 34

<211> 118

<212> PRT

<213> Mouse

<400> 34

Met Ala Ser Lys Val Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys
1 5 10 15

Asp Lys Lys Asn Lys Lys Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu
20 25 30

Glu Ser His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn
35 40 45

Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile
50 55 60

Pro Asn Arg His Val Asp His Ser Glu Gly Gly Glu Glu Val Gly Arg
65 70 75 80

Phe Val Gly Gln Val Met Glu Ala Lys Arg Lys Ser Lys Glu Gln Gln
85 90 95

Met Arg Pro Tyr Thr Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr
100 105 110

Asp Phe Cys Leu Ile Pro
115

<210> 35

<211> 118

<212> PRT

<213> Mouse

<400> 35

Met Ala Ser Lys Phe Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys
1 5 10 15

Asp Lys Lys Asp Lys Arg Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu
20 25 30

```
Glu Pro His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn
        35                  40                  45

Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile
    50                  55                  60

Pro Asn Arg His Val Asp Arg Asn Glu Gly Gly Glu Asp Val Gly Arg
65                  70                  75                  80

Phe Val Val Gln Gly Thr Glu Val Lys Arg Lys Thr Thr Glu Gln Gln
                85                  90                  95

Val Arg Pro Tyr Arg Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr
            100                 105                 110

Asp Phe Cys Leu Ile Pro
        115
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<210> 36

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<212> PRT

<213> Mouse

<400> 36

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Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
1               5                   10                  15

Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro
            20                  25                  30

Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg
        35                  40                  45

Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly
    50                  55                  60

Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys
65                  70                  75                  80
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Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu
85 90 95

Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
100 105 110

<210> 37

<211> 120

<212> PRT

<213> Mouse

<400> 37

Met Glu Gln Pro Leu Gln Asn Gly Gln Glu Asp Arg Pro Val Gly Gly
1 5 10 15

Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn His Asn His Asn
20 25 30

His Asn His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln
35 40 45

Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn Arg Gln
50 55 60

Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met Phe Met
65 70 75 80

Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
85 90 95

Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His Asp His
100 105 110

His Asp Glu Phe Cys Leu Met Pro
115 120

<210> 38

<211> 120

<212> PRT

<213> Mouse

<400> 38

Met Glu Gln Pro Leu Gln Asn Gly Gln Glu Asp Arg Pro Val Gly Gly
1 5 10 15

Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn His Asn His Asn
20 25 30

His Asn His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln
35 40 45

Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn Arg Gln
50 55 60

Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met Phe Met
65 70 75 80

Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
85 90 95

Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His Asp His
100 105 110

His Asp Glu Phe Cys Leu Met Pro
115 120

<210> 39

<211> 111

<212> PRT

<213> Mouse

<400> 39

Met Glu Asn Val Pro Lys Glu Asn Lys Val Val Glu Lys Ala Pro Val
1 5 10 15

Gln Asn Glu Ala Pro Ala Leu Gly Gly Gly Glu Tyr Gln Glu Pro Gly

20 25 30

Gly Asn Val Lys Gly Val Trp Ala Pro Pro Ala Pro Gly Phe Gly Glu
35 40 45

Asp Val Pro Asn Arg Leu Val Asp Asn Ile Asp Met Ile Asp Gly Asp
50 55 60

Gly Asp Asp Met Glu Arg Phe Met Glu Glu Met Arg Glu Leu Arg Arg
65 70 75 80

Lys Ile Arg Glu Leu Gln Leu Arg Tyr Ser Leu Arg Ile Leu Ile Gly
85 90 95

Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
100 105 110

<210> 40

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<213> Mouse

<400> 40

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
1 5 10

<210> 41

<211> 13

<212> PRT

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<400> 41

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
1 5 10

<210> 42

<211> 10

<212> PRT

<213> Mouse

<400> 42

Leu Pro Pro Leu Glu Arg Leu Thr Leu Asp
1 5 10

<210> 43

<211> 12

<212> PRT

<213> Mouse

<400> 43

Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp
1 5 10

<210> 44

<211> 12

<212> PRT

<213> Mouse

<400> 44

Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu
1 5 10

<210> 45

<211> 10

<212> PRT

<213> Mouse

<400> 45

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Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile
1               5                   10
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